

# Angeles Marin Batana

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## EDUCATION

Ball State University

**B.S Computer Science; B.S Spanish; Minor in Sociology**

May 2025

Muncie, IN

- GPA: 3.5/4.0
- Honors: Departmental Honors in Computer Science; Dean's List
- Concentrations: Data Analytics and Machine Learning; Language and Culture Studies

## WORK EXPERIENCE

Co-Founder | Software Engineer

Plcaenet

Aug. 2024 – Present

Muncie, IN

- Co-founded a startup from a university capstone; led a 5-person team to design and launch 2 MVPs in 2 months respectively
- Engineered backend (Node.js → Firebase) and 15+ frontend features (React Native + Axios) including property maps, document storage, and contractor workflows.
- Represented Placenet at Global Entrepreneurship Congress and TechChicago Capital Summit, securing partner 5-10 /client leads and investor interest.
- Collaborated on Y Combinator application and strategic roadmap with co-founder/CEO

Artificial Intelligence and Cybersecurity Research Assistant

Ball State University

Oct. 2024 – Present

Muncie, IN

- Collaborating on a peer-reviewed paper for RE'25 (IEEE RE Conference); building RAG pipelines using Python, OpenAI API, and ChromaDB fro threat detection.
- Developing LLM-based framework for security requirement generation using CVE/NVD datasets and structured outputs for asset-threat mapping.
- Designed visualizations to effectively communicate with faculty and undergraduate researchers in weekly meetings to iterate on methodology, data quality, and model performance.

Big Data Analytics and Machine Learning Researcher

North Dakota State University

May. 2024 – Jul. 2024

Fargo, ND; Santiago, Chile

- Researched scalable ML using swarm intelligence algorithms (Bat Algorithm) & Apache Spark.
- Implemented Bat Algorithm variants to optimize classification tasks by distributing either input data or swarm particles across cores.
- Evaluated performance across 7 core configurations (2–64 cores) and 10 dataset sizes (200-2000), using speedup and scaleup metrics to analyze computational efficiency.
- Presented findings at Universidad de Chile – Escuela de Ingeniería y Ciencias, highlighting scalability strategies for real-world machine learning applications.

UX/ UI Researcher | Junior Project Manager

The Digital Corps | Ball State University

Sept. 2023 – May 2025

Muncie, IN

- Led and collaborated with cross-functional teams and university-wide clients and created user-centered UX/UI solutions supporting digital transformation initiatives.
- Conducted user interviews, created wireframes, mapped user journeys, and designed user flows to enhance usability and meet client needs.
- Presented design proposals and creative solutions to stakeholders, demonstrating strong communication skills and an ability to align design decisions with project goals.

IT Operations Intern

Magna International

May 2023 – Aug 2023

Muncie, IN

- Provided technical support by troubleshooting, hardware, and software, and configured computers for 100+ end-users on Windows 10, contributing to efficient IT operations and ensuring systems were fully functional.
- Leveraged QuickBase and PowerBI to analyze and visualize company-wide to understand company efficiency initiatives.

## TECHNOLOGIES & CERTIFICATIONS

- Technologies:
  - Programming Languages: Python · Java · JavaScript · R · Swift · Ruby · C
  - AI/ Data Science & ML Tools: OpenAI API · LangChain · NotebookLM · ChromaDB · PyTorch · Scikit-learn · Apache Spark · Pandas · NumPy
  - Tools: Jupyter · GitHub · Docker · Firebase · Amazon S3 · PostgreSQL
- Certifications:
  - DataCamp: Generative AI Concepts, Explainable Artificial Intelligence (XAI) Concepts, AI Security and Risk Management
  - CITI: Biomedical Responsible Conduct of Research, IUEHS Biosafety Training, NIH Recombinant DNA Guidelines